224 • October 31, 2002

# INTERFACE

## NIH COMPUTER CENTER

# CIT Hosting

## FEES FOR FISCAL YEAR 2003

Center for Information Technology • National Institutes of Health

## CIT

# Table of Contents

## Articles

**Http://www.nih.gov** is one of the most frequently visited federal government Web sites.

|  | *July* | *August* | *September* |
|---|---|---|---|
| Total hits for the month | 44,635,397 | 43,958,012 | 48,815,036 |
| Hits per day | 1,439,851 | 1,418,000 | 1,627,167 |
| Number of different individuals | 356,624 | 341,270 | 400,582 |

Server has been up 100% for 845 consecutive days (as of October 31, 2002).

# *Articles*

## NIH Computer Center Rates for Fiscal Year 2003

Each year CIT reviews its rates for the services provided by the NIH Computer Center. We evaluate the costs associated with our various services and modify rates appropriately.

We expect that overall charges to individual OS/390 users in fiscal year 2003 will be comparable to or slightly lower than those in fiscal year 2002. Some rates have gone down (e.g., Titan I/O processing and disk storage), and some service charges are now separately itemized.

Other noteworthy changes include rate structures for a new ColdFusion hosting service, for using our disaster recovery services, and for firewall ruleset support.

The NIH Computer Center's fiscal year 2003 rates are available on the Web [http://datacenter.cit.nih.gov/rates]. While this site will be updated when rates change, major rate adjustments will continue to be announced in *Interface*. Other articles on rates in this issue include: "EOS Hosting Services—Fiscal Year 2003 Rates" and "CIT to Charge for Disaster Recovery Program in Fiscal Year 2003."

If you have any questions, please call TASC.

## EOS Hosting Services—Fiscal Year 2003 Rates

CIT has been providing a Unix-based hosting environment at the NIH Computer Center on a fee-for-service basis since 1997 when the Enterprise Open Systems project (EOS) was introduced. EOS services include Oracle database and Oracle9*i*AS (midtier) hosting on shared servers. EOS services also include custom hosting configurations that can include dedicated Unix servers, application-specific firewalls, along with components on other platforms.

**The Computing Environment**

All applications hosted at the NIH Computer Center enjoy the benefits of a secure machine room, conditioned environment, uninterruptible power supply, and round-the-clock monitoring of systems. As hosts on the NIH network, machines are protected with a perimeter firewall.

The Computer Center environment is certified as suitable for hosting applications with HHS Level 3 security requirements (i.e., critical applications and/or highly sensitive data). The components of the

hosted application are administered and coordinated by CIT staff members who respond to customer requests that are tracked online through the Application Service Request (ASR) system.

## Fiscal Year 2003 Rates

To support cost-recovery operations, CIT regularly reassesses rates to ensure that they accurately reflect the costs of providing services. CIT recently completed an analysis of the EOS hosting service and the resources required to provide and manage it. Our goal is to remain technologically current, securely connected and properly staffed while offering reasonable pricing based on actual costs. This enables our customers to concentrate their technical resources on the development of the application. As a result of this analysis, CIT has developed a new rate structure for the EOS hosting services. We are working with existing customers to plan a transition to the new costing structure with minimal disruption. The rates will apply immediately to new customers.

It is impractical to document a rate that will apply to all applications, since applications hosted on EOS commonly require unique sets of hardware and/or services. Therefore, the following examples of revised rates for shared Oracle hosting services are for applications with *typical* loads.

| *Oracle Services on Shared Server* | *Monthly Rate* |
|---|---|
| Shared Oracle database service—includes 2 instances (e.g., 1 production, 1 development) | $4,517 |
| Additional Oracle database instance | $1,443 |
| Shared Oracle midtier service—includes two 9iAS components | $4,002 |
| Additional Oracle9iAS component | $1,185 |
| Data management services—includes data storage, backup, recovery | $70 per GB |

The new rates for shared server hosting reflect the costs for new Oracle licensing and new larger, faster servers, and include items that had previously been charged separately. There are no longer any extra charges for Oracle concurrent database user rights or for Oracle database SGA (memory). Also included in the hosting fee is the data storage for the operating system and Oracle software (binaries).

## Assistance

We encourage you to talk to CIT directly. Every application has distinct requirements, and CIT can help determine the services that best fit your application's needs. Call TASC and ask to speak to someone about hosting applications on EOS.

# CIT Invoices Have a New Look Starting in October

CIT has changed the way it will produce invoices in fiscal year 2003. Starting October 1, 2002, CIT invoicing data—including Project Accounting System (PAS) data—is being accumulated under a single system and appears in a new format in the NIH Data Warehouse.

Customers receiving an invoice for CIT services will see a slightly different format in fiscal year 2003. The only customers to see no change will be OS/390 Titan users, who have been getting this invoice for more than a year.

The major difference in the invoice is that only the services used are listed, grouped by meaningful categories (e.g., OS/390 South, Helix, Hosting). The charges are listed for the current month and for the fiscal year.

## Reports for OS/390 Web Sponsors and Coordinators

CIT has also created a new Web-based billing reports system for the OS/390 Titan and South system. Using Web Sponsor, account sponsors and billing coordinators can generate reports using a variety of information and reporting periods; they can view the report online or send it to a remote printer or box. Articles on the new billing reports system appear on the Web-based *Titan/South System News* [http://datacenter.cit.nih.gov/titannews/].

For more information, call TASC.

## A Sample Invoice

**National Institutes of Health**

**Center for Information Technology**

**Financial Management Office**

**Summary of Charges for November, 2002**

*Prepared*: 12/10/2002

*Account*: AAA

*CAN*: XXXXXXXX

*Organization*: CSRS/NDIA

*Title*: CSRS—SYSTEM TESTING

| Billing Coordinator | Alternate Billing Coordinator |
| --- | --- |
| *Name (telephone number)* | Name (telephone number) |
| *Address* | Address |
| *Bethesda, MD 20892* | Bethesda, MD 20892 |

| | CURRENT MONTH | FISCAL YEAR |
| --- | --- | --- |
| **South Services** | | |
| Batch Processing | 35772.90 | 66023.90 |
| Interactive | 7614.28 | 11432.56 |
| Printing | 474.25 | 474.25 |
| Tape Storage/Mount | 394.00 | 394.00 |
| TOTAL FOR South Services | 44255.43 | 78324.71 |
| **Hosting and Related Services** | | |
| Base service agreement | 2000.00 | 4000.00 |
| Disaster Recovery | 118.20 | 236.40 |
| TOTAL FOR Hosting and Related Services | 2118.20 | 4236.40 |
| **Assessments** | | |
| Network Services | 3000.00 | 6000.00 |
| ADB/Data Warehouse Assessment | 3000.00 | 6000.00 |
| TOTAL FOR Assessments | 6000.00 | 12000.00 |
| **TOTAL FOR ACCOUNT AAA** | **$ 52373.63** | **$ 94561.11** |

# SDP Grows and Gets a New Name—ISDP

CIT has expanded the scope of the Software Distribution Project (SDP) by adding hardware and services to an already extensive menu of software titles currently offered. To reflect this change, the SDP has been renamed Information Systems Designated Procurement (ISDP).



Hardware and services that have been added include Blackberry handheld devices, iDefense security services, and Gartner research services. Other recent additions to the site include statistical software such as SAS and SPSS, and an open agreement with Peregrine Systems. Many more products and services will be added in the future.

## Benefits of Using ISDP

The ISDP takes advantage of large volume purchasing agreements to deliver brand-name software, hardware and services at significant discounts. This saves participants' time and money by eliminating the need to search for the best deals.

So far, CIT has provided its ISDP services to more than 54,000 customers, including 84% of HHS personnel and all of NIH. Nearly $12 million dollars are saved annually through this program. ISDP will continue taking advantage of large volume purchasing agreements to provide significantly discounted software, hardware and services to customers.

Please visit the ISDP Web site at [http://isdp.cit.nih.gov] for a complete catalog of offerings and more information. Bookmark the site to keep up with other products and services that will be added in the future.

# Roger Fajman Retires

Alan S. Graeff, Director, CIT

Friends and colleagues gathered recently to honor Roger Fajman and to wish him well in his retirement from federal service.  During his more than 30 years in DCRT and CIT, Roger proved to be one of the great innovators of our organization.   Roger Fajman's accomplishments not only advanced NIH but, in several instances, the computing industry.   One of his first accomplishments (while serving as the technical leader of the NIH Computer Center systems programming staff) became known as "Shared Spool."  Shared Spool allowed multiple machines to share a common work queue.  The design was taken over by IBM and is still an essential component of IBM's latest operating system.

Roger is most widely known as "the Father of WYLBUR."   Roger started at the Computer Center in 1969 as a Public Health Service Officer.  From Stanford, he brought with him some software he had co-written called "WYLBUR" and adapted it for use here.  Once Roger completed this work, Computer Center users no longer had to punch cards, take them down to the submission desk and wait hours for the output to appear in their boxes.  Without leaving their offices, users could use the text editing capabilities of WYLBUR to create their batch jobs, submit them to run, and examine the output through their ASCII terminals.  It was a revolutionary concept.

In 1981, his design and implementation of NIH Extended WYLBUR gave our NIH scientific and administrative community the ability to quickly and easily create, modify, and e-mail documents and papers.  Many significant NIH publications, including grants summary statements, the NIH Guide to Grants and Contracts, and research papers were written and formatted using WYLBUR's extensive array of facilities.

Roger's work in establishing a 3COM e-mail gateway and centralized SMTP e-mail gateway enabled every NIHer to have e-mail communications with all other NIH personnel and with colleagues worldwide via the Internet and BITNET networks.  Due to Roger's efforts, NIH was frequently able to take advantage of emerging technologies before they became generally available.

Everyone who ever worked with Roger liked, respected and learned from him.  CIT and NIH will miss Roger Fajman's innovative mind and his willingness to share his ideas with others.

# "Ask TASC"—About Remote Access

TASC receives many calls each day from customers who are experiencing similar problems. In *Interface*, we present some frequently asked questions and answers, as well as tips. We hope you find this information helpful.

**Q What is Remote Access?**

A Remote access is the ability to access a computer or a network from a remote location. Using remote access allows people to perform the same tasks from home, other offices, or while traveling, as they would while sitting at their desk.

There are several ways to get remote access to your network resources. Dial-up connection through a modem connected to a desktop, notebook, or handheld computer over regular telephone lines is a common method. The NIH dial-up service is called "Parachute."

Remote access is also possible using a dedicated line between a computer or a remote local area network and the "central" or main corporate local area network. A dedicated line is more expensive and less flexible but offers faster data speed. Some examples of dedicated lines are digital subscriber line (DSL) and cable modem.

**Q How can I get DSL or cable modem access?**

A DSL or cable modem service can be purchased by contacting the vendor of your choice. NIH no longer has DSL and cable modem pilot programs. As of today these programs remain in suspended status.

**Q What are some of the major differences between cable modem and DSL?**

A DSL (digital subscriber line) service is not available in all neighborhoods, while cable modem service is available in most areas of the Washington metropolitan area. You may check with the service provider of your choice for availability in your area. DSL provides a dedicated high speed connection, but cable modem connections are shared. This means that your connection speed can be affected if some of your neighbors are online with their cable modem. With cable modem service you have Internet access 24 hours a day without having to log on, while some DSL services require you to login and log out of the service.

**Q How can I access the NIH network using my personal Internet service provider?**

A If you are using a third party ISP (any service other than Parachute), please check with that specific provider as to whether they allow the use of VPN (virtual private network). Once you verify that VPN is allowed, you will need to obtain an NIH VPN account. VPN is currently in pilot at CIT; accounts may be requested by an account sponsor via e-mail to *TASC@nih.gov*. Once an NIH VPN account is created and you have installed the software on your home computer, you will then have access to NIH network resources—for example, secure Web sites such as *itas.nih.gov*, the electronic on-line journals, and your "home" drive(s).

**Q   Is there a charge for an NIH VPN account?**

A   There is no direct charge for this service.

**Q   If I go to a non-NIH Web site while connected to the NIH VPN, will my computer remain protected from hackers?**

A   Yes, because you are connected to the VPN server, you are protected by the NIH firewalls from attacks on your machine.  Caution: When going to sites where you need to enter personal information such as social security numbers and credit card numbers, make sure the Web site is secured.  Most secured Web addresses will begin with **https://** instead of the normal **http://**.  An example of a secured Web site would be *https://itas.nih.gov*.

For more information, please refer to CIT's remote access Web site [http://remoteaccess.nih.gov].  If you have any questions, please call TASC, and a consultant will be happy to help you.

We welcome your ideas about topics in future editions of "Ask TASC."  Please send suggestions to *tasc@nih.gov*.

# NBRSS Made Considerable Strides This Summer

The careful planning for the NIH Business and Research Support System (NBRSS) project is paying off. EHRP has become operational, and the General Ledger and Budget modules have begun running in parallel with the ADB.  See *Interface* issues 214, 216, and 221 for background information on the planning.

Keep up with what is happening on the NBRSS Web site [http://nbrss.nih.gov/].  Recently redesigned, the site contains easily-accessible information and news.

## The News, Briefly

- *EHRP*          The EHRP system became operational September 9.

  The ERHP Web page is http://nbrss.nih.gov/ehrp.html



- *Finance*          The General Ledger and Budget modules began running in parallel with the ADB in October.  Training is continuing.

- *Travel*   Deployment has been accelerated to spring 2003, and training will continue through January 2003.

     Demonstrations of the Gelco Travel Manager System were given at the NBS Town Hall (November 6).

- *Property*  Additional functionality is being evaluated.

- *Acquisition* The Functional and Change Management Teams have wrapped up the initial round of presentations and system demonstrations in the various user communities, including an on-site system demonstration at NIEHS in North Carolina.

- *Supply*   Preparations are underway for the future deployment.

- *R&D Contracting* Some end users have tested the Oracle system.

- *SSF*    Oracle Projects will support Service & Supply Fund activities.

## NIH Business System (NBS) "Town Hall"

A NBS "Town Hall" was held on November 6, 2002, in the Natcher Auditorium. The Town Hall was hosted by the Change Management Team to increase the scientific and administrative communities' awareness and understanding of the NBS project. Slides and documents presented at the Town Hall are available on the Web [http://nbrss.nih.gov/news.html#townhall].

# "SquirrelMail" Provides Easy Web Access to Helix E-Mail

You can access Helix mail easily and securely from any computer whenever you're away from the office—using SquirrelMail on a Netscape or Internet Explorer browser.

SquirrelMail lets you read and send Helix mail just as you normally would, with complete access to your attachments and Helix mail folders.  You can also modify SquirrelMail options to customize the "look and feel," alter the number of messages to list, automatically highlight messages, and much more.  In addition, you can create an address book for use with SquirrelMail.

Try out SquirrelMail [http://helix.nih.gov/mail].
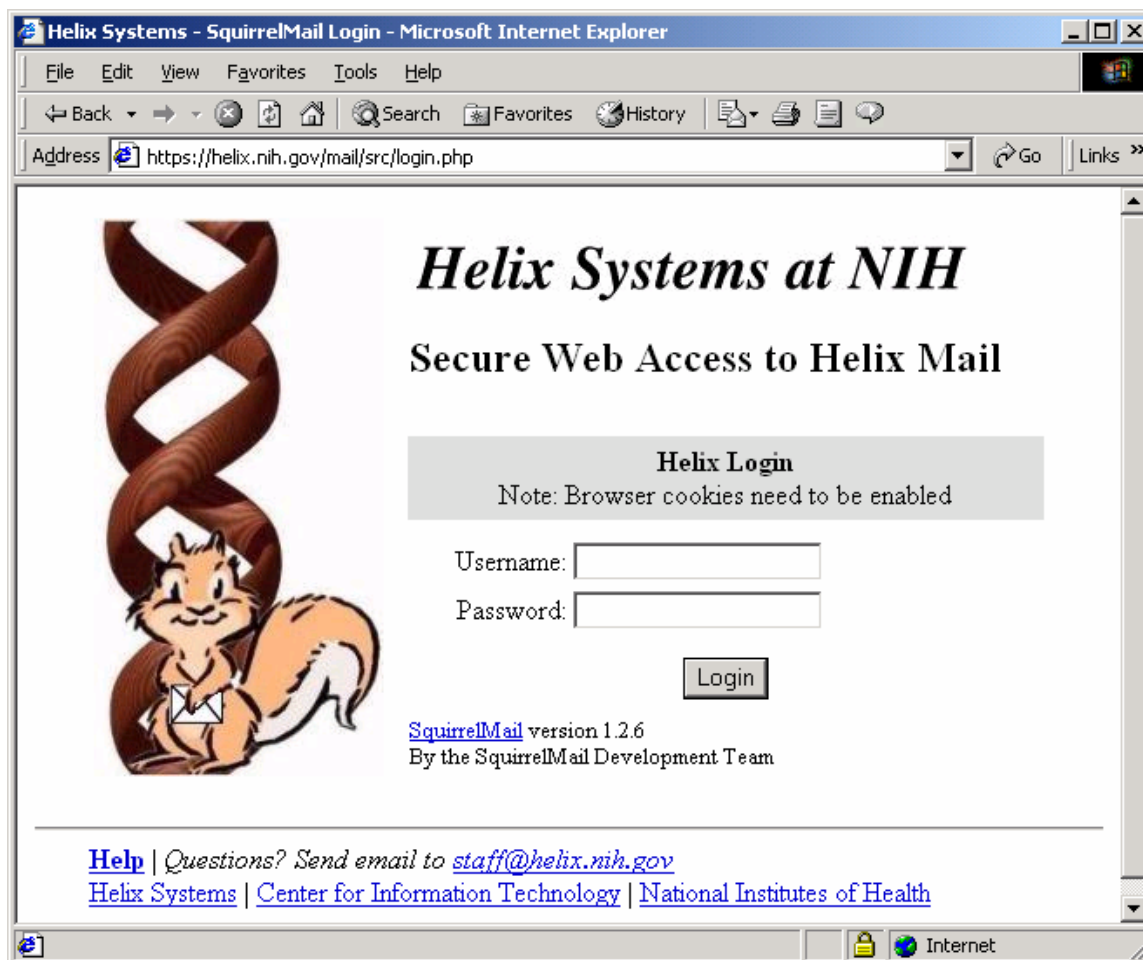
## More Information

Some basic information on using SquirrelMail is available online
[http://helix.nih.gov/docs/online/squirrelmail.html].

The Helix staff hopes you find this service useful.  If you have any questions, please send e-mail to
*staff@helix.nih.gov.*

# NIH Community Benefits from CIT Consolidation and Relocation

In August of 2002, approximately three hundred people from the Center for Information Technology
(CIT) began a well-coordinated move to new space at 10401 Fernwood Road, Bethesda, Maryland.

By consolidating CIT operations through a major
relocation, CIT leadership has provided:

- valuable on-campus space for intramural research
  across NIH
- new off-campus classroom space for users
  of the CIT Training Program
- opportunities for increased efficiency and
  productivity across CIT



*CIT – Building on Fernwood*

## Services and Staff Remaining on the NIH Campus

Personnel from CIT's Division of Computational Bioscience and the Division of Computer Systems
Services—including the NIH Computer Center—remain on the NIH campus. They will continue their
direct collaboration with, and service to, intramural research across the NIH campus.  We hope that
opportunities for interactions with computational scientists (who will occupy former CIT on-campus
space) will increase because of this new proximity.

As CIT's Deputy Director and Chief Operating Officer, Gary Christoph, Ph.D., notes, "we will continue to
interact strongly with NIH Institute and Center staff on campus…both to determine how information
technology is leveraged to help the intramural programs do cutting edge science…and to fulfill the NIH-
wide responsibilities of the Chief Information Officer."

Christoph also clarified that in addition to the CIT divisions that remain on campus, CIT's Office of the Director, NIH Chief Information Officer (CIO), and CIT divisions with unique services and functions will continue to maintain a presence on the main NIH campus. For example, CIT's Division of Network Systems and Telecommunications will continue to directly support network and telecommunications on campus, as well as other locations like Executive Boulevard and Democracy II. CIT's Division of Customer Support (DCS) will continue to provide CIT Training classes on the NIH campus.

## Popular CIT Training Program Adds Classrooms and Expands Locations

Users of CIT's Training Program will benefit from the move. Two on-campus classrooms in NIH Building 12A have been retained and two new classrooms have been added in the Fernwood location. CIT Training staff, while primarily based at Fernwood, will have on-campus office space and will spend significant time in both sites.

Please note that scientific classes will continue to be taught on the NIH campus. Other classes will be held in various locations, depending on the geographic location of the majority of those students interested in the topic. Classes in great demand—and thus with multiple sessions—may be offered at both sites. There will be free parking at our new location and a Fernwood stop has been added to the NIH shuttle schedule. This will benefit our NIH colleagues who work off-campus, must drive, and have encountered difficulties accessing the NIH campus for CIT Training classes. CIT runs a special shuttle directly between building 12A on campus and Fernwood. The CIT and Rockledge shuttle schedules are on the Web [http://training.cit.nih.gov/fernwood.html] and available from the training Web site.

As always, all classes in the CIT Training Program are offered free of charge to NIH staff, with the intent of helping you in your work at NIH. You can read course descriptions and register for classes on-line [http://training.cit.nih.gov], or call TASC and ask about the CIT Training Program.

## CIT Customer Support Remains 7/24

CIT is committed to world-class customer support for our customers. In addition to our NIH community, we provide essential services and functions for other agencies in the Department of Health and Human Services and the federal government.

CIT staff at the Technical Assistance and Support Center (TASC) remains ready to assist you. Simply call (301) 594-6248 (on campus 4-6248, or GOCIT). In the event of an after-hours emergency, this same number will connect you to CIT technical support. Customers can also access the TASC Web site [http://support.cit.nih.gov/] for 7/24 self help.

Customers can pick up materials from TASC (e.g., system documentation, self-study books) at either TASC location—NIH campus building 12A or 10401 Fernwood Road, Bethesda, Maryland.

### CIT Commitment to Our Customers

At CIT, only our main address has changed.  Our vision and mission are constant:

- to be a vital partner in the discovery of biomedical knowledge
- to provide, coordinate, and manage information technology
- to advance computational science

We are pleased that our support services and functions have seamlessly continued throughout our relocation effort.  We invite you to take full advantage of our partnership.

# CIT to Charge for Disaster Recovery Program in Fiscal Year 2003

CIT originally announced that charging for disaster recovery services would begin on October 1, 1998 — a date that was later delayed while several issues were resolved.  (See *Interface* issues 205 and 207, in 1998.)  These issues have been resolved, and the disaster recovery program is now ready to function as an optional cost-recovery service.

Beginning October 1, 2002, CIT is charging an annual fee of $7,500 for participation in the NIH Computer Center's disaster recovery program.

### Basic Services Covered by the Fee

CIT's disaster recovery services include:

- a hot site and the connectivity required to reinstate production operations of critical applications in the event of a data center disaster
- restoration of processing and customer assistance on the standard hot site systems in the event of a data center disaster
- system support and customer assistance for two hot-site tests each fiscal year
- annual certification via the SAS-70 audit of the viability of the computer center's disaster recovery plan
- weekly off-site backups of application files and data
- on-going customer support for disaster recovery planning and hot-site preparation

Charges for those applications that require additional hardware at the hot site or other heightened levels of support will be individually determined.

If you have any questions or concerns, please contact TASC and ask to speak to the disaster recovery coordinator or send email to *tasc@nih.gov*.

# The Next Disaster Recovery Test Is Scheduled for November 13, 2002

Two hot-site tests are held each year during which owners can verify recovery procedures for their critical applications hosted at the NIH Computer Center. The second test this year will be on Wednesday, November 13.

If your applications are hosted at the NIH Computer Center and you wish to participate in the disaster recovery program—or to discuss your critical application requirements for either the OS/390 (Titan and South) or Unix (EOS) systems—please call TASC and ask to speak to the disaster recovery coordinator.

### CIT Course Scheduled for December 2

If you wish to learn about disaster recovery planning and the NIH Computer Center's disaster recovery program, a disaster recovery course is being offered on Monday, December 2, 2002, by the CIT computer training program.

The course provides an introduction to disaster recovery planning and will cover topics such as:

- basic steps for developing and implementing a disaster recovery plan
- recovery strategies for various computer environments including client/server configurations and the central processing configurations
- NIH Computer Center disaster recovery program

You may register for the course online via the CIT training Web page [http://training.cit.nih.gov]. For more information, call TASC.

# South System Users—Do You Want a Smooth Transition to Titan?

You will have an easier time if you read the Web-based *Titan/South System News* regularly.

This newsletter will keep you abreast of important events, equipment and software upgrades, technical information and other issues. You will find it a good source of information when the transition of the OS/390 South system to Titan begins in earnest this fall.

You can also learn more about Titan. For example, did you know about recent changes in disk storage charging, DB2 versions, the Titan transition Web pages, and Web Spponsor? If you missed the articles, you were not subscribed to our e-mail list. Subscribers got e-mail announcements when these articles were put on the Web.

### Subscribing Is Easy

The *Titan/South System News* Web page [http://datacenter.cit.nih.gov/titannews] has a link directly to NIH Listserv for subscribing.

# DB2 Version 7 Upgrade on the OS/390 South System Offers New Features

This past summer, CIT upgraded DB2 to version 7 on all OS/390 South system subsystems—development (DSND), production (DSNP), and the NIH Data Warehouse (DSNW). The new version of DB2 offers improved reliability and connectivity, and contains features that allow more flexibility in developing and integrating applications.

Details of the Version 7 enhancements are in the Web-based *Titan/South System News* [http://datacenter.cit.nih.gov/titannews/]. Version 7 manuals are available (and searchable) on the Web [http://silk.nih.gov/dbtek/db2doc]—use the link to "View/Search IBM DB2 Version 7 Manuals."

If you have any questions or need assistance with any of the new features, please contact TASC and ask to speak with someone on the Database Technologies Staff.

# Learn About New/Updated Manuals—Join the "CIT-Doc-Renew" List

Manuals are updated regularly—even those only available online.  Do you know if you have the latest version?

The only way to be sure—since automatic documentation renewal was discontinued—is to subscribe to an e-mail list.  Our "cit-doc-renew" Listserv list sends you e-mail when a new or updated manual becomes available.  Subscribe via the "cit-doc-renew" Web page [http://list.nih.gov/archives/cit-doc-renew.html].

## Ordering Publications

CIT has a convenient Web-based system for getting copies of documentation—the "View/Print on Demand" (VPOD).  VPOD provides four ways to get documentation—viewing online as a PDF, printing to a local printer or to the central printers, and ordering a hardcopy version.

To see the list of documentation, go to the CIT publications Web page [http://publications.cit.nih.gov].  See the article on VPOD in *Interface* 219 (June 25, 2001).

# CIT Computer Training—Fall 2002 Classes

The CIT Computer Training Program is offering over 100 different classes during the fall term now under way.  New courses are being offered this fall in a diverse and interesting curriculum.  Statistical software and other classes for scientists are well represented in more than 20 new classes.

## Statistical packages

- The SAS Institute will offer a SAS Day in Wilson Hall, in Building 1, where participants will have an opportunity to learn about SAS tools.  In addition,  two hands-on classes will be offered:  1) "Accomplishing Tasks in SAS Using Enterprise Guide Software" for users who are not programmers but who need to retrieve information from different sources, summarize it, and present it in tables and graphs.  2) "The SAS Output Delivery System" for experienced SAS programmers who would like to use this new tool for producing output.

- A specialized class in S-Plus, "Microarray Data Analysis Using S-PLUS 6," will offer a morning lecture and an afternoon hands-on lab session in this major statistical package. Among the examples to be included will be analysis of cDNA and Oligo (Affymetrix) microarray data.

## Scientific Software

- CIT's Helix group will present a class on "Easy Large-Scale Bioinformatics on the NIH Biowulf Supercluster." This class will demonstrate user-friendly tools available at NIH for scientists with hundreds or thousands of sequences to analyze.

- The National Center for Biotechnology Information (NCBI) will be offering classes on "Locus Link" and "Making Sense of DNA and Protein Sequences," as well as repeating classes on Blast, Structural Analysis, and MapViewer.

- Affymetrix is bringing a hands-on "Understanding Affymetrix GeneChip® Data using Data Mining Tool (DMT) and the NetAffx™ Analysis Center."

- Bitplane is bringing three offerings: "Imaris and Imaris Surpass Basics," "Measurement Pro, Imaris Time, and Advanced Features of Imaris and Surpass," and "Deconvolution – Huygens."

## Other Opportunities

- Microsoft's .NET and Sun's J2EE are competing tools for enterprise development and deployment of web-based applications. A summer training program compared the two. This fall, two new courses have been scheduled in response to requests for more technical information. Microsoft will present a 2-day hands-on ".NET for Developers," and Sun Microsystems will present "J2EE."

- The travel portion of the NIH Business and Research Support System (NBRSS) will be rolling out at NIH in the spring, with more than 2000 students needing training within a short period. CIT will coordinate all registrations for the many locations—for a training program that will comprise both computer-based self-study and a day of hands-on classroom work.

- NIH Data Warehouse trainers will teach a class on the conversion of the Data Warehouse tool involved with the NBRSS.

## New Classroom Added North of the NIH Campus

You may have noticed some changes on campus recently, but do not worry. Although many CIT offices have moved out of building 12A—where our classrooms are located—we still offer classes there. (See the article in this issue, "NIH Community Benefits from CIT Consolidation and Relocation.")

CIT now has off-campus classroom space at 10401 Fernwood Road—near the NIH campus and connected by a CIT shuttle for your convenience. We have worked hard to make it easy and convenient for the NIHers to come to Fernwood for training. Visitor parking is free of charge.

In addition to the Rockledge shuttle—which drops passengers off next to the Fernwood Building—CIT also runs a special shuttle directly between building 12A on campus and Fernwood. Maps, parking information, and the CIT and Rockledge shuttle schedules are on the Web [http://training.cit.nih.gov/fernwood.html] and also available from the training Web page.

## More Information

Classes are available—free of charge—to enable users to make efficient and effective use of computing, networking, and information systems in their work at NIH. A full list of courses, with descriptions, can be found at the training Web site [http://training.cit.nih.gov]. You can register online, too. If you have questions or need assistance, please call TASC.

# Training Calendar—Fall 2002

**November**

| | | |
|---|---|---|
| 636 | Introduction to FrontPage 2000 | 11/1 |
| 645 | Practical Web Page Development for NIH Researchers | 11/1 |
| 903 | Avoiding Pitfalls in Statistical Analysis | 11/1 |
| 973 | Statistical Analysis of Microarray Data | 11/4 |
| 823C | Creating Presentations with PowerPoint for the PC | 11/4 |
| 155B | Data Warehouse Orientation | 11/4 |
| 210 | SAS Day at NIH | 11/5 |
| 182 | NIH Data Warehouse Query: Property Management | 11/5 |
| 990 | Genetics Computer Group (GCG) Sequence Analysis | 11/5 - 11/7 |
| 102 | Titan Transition – Where's My Keyword | 11/6 |
| 212 | SAS Programming Fundamentals I | 11/6 - 11/7 |
| 409 | Basic Security for Unix Workstations | 11/7 |
| 190 | NIH Data Warehouse Query: Human Resources Fellowship Payment | 11/7 |
| 939 | AFNI Hands-On: Transforming Datasets to Talairach-Tournoux Coordinates | 11/8 |
| 831B | Outlook 2000 Tips and Tricks | 11/8 |
| 843 | Hands-On PC Upgrading and Security | 11/12 |
| 160B | Budget Tracking | 11/12 |
| 170A | NIH Data Warehouse Analyze: Budget & Finance | 11/12 |
| 103 | RACF on South and Titan Systems | 11/13 |
| 989 | Getting Started with GCG and Other Sequence Analysis Programs on the Helix Systems | 11/13 |
| 213 | SAS Programming Fundamentals II | 11/13 - 1/14 |

| 377 | Parachute for Windows | 12/18 |
| 911 | Designing Effective Scientific Slides | 12/18 |
| 400B | Fundamentals of Unix | 12/18 - /20 |
| 611 | Seeking Information on the Web | 12/19 |

This list does not include independent study courses.  See the CIT training Web page [http://training.cit.nih.gov].

# *Dates to Remember*

## Now . . .

- EHRP system is now operational under the NBRSS project.
  [See also issues 216, 221, 223]

- The NBRSS General Ledger and Budget modules have begun running in
  parallel with the ADB.  [See also issue 223]

- Blackberry handheld devices, iDefense security services, Gartner
  research services, and Peregrine Systems are available to NIH and HHS.

- DB2 has been upgraded to version 7 on all OS/390 South system
  subsystems—development, production, and the NIH Data Warehouse.

- A Listserv list for *Titan/South System News* is available to send an e-mail
  notice when new articles are put on the Web.

- "CIT-doc-renew" Listserv list is available to send e-mail notice when a
  new or updated manual becomes available.

- CIT has consolidated operations in new location.  Customer support
  remains 7/24 and accessible via the Web and TASC.

- Secure access to Helix mail is available away from the office via SquirrelMail.

## In 2002. . .

| | |
|---|---|
| October 1 | CIT invoices have a new look in fiscal year 2003. [E S T] |
| October 1 | Fiscal year 2003 rates become effective.  [E S T] |
| October 1 | Beginning in fiscal year 2003, CIT will charge an annual fee for the disaster recovery program.  [See also issues 205, 207] |
| November 13 | Disaster recovery off-site test.  [E S T] |
| December 2 | Disaster recovery class.  [E S T] |

## 2003 . . .

| | |
|---|---|
| Spring | Deployment of NBRSS module for travel. [See also issue 223] |

**E**   EOS System
**S**   OS/390 South System
**T**   OS/390 Titan System

Articles in other issues of *Interface* appear in brackets [ ].

# *Publications*

The following documents have become available since the last issue of *Interface*. Automatic renewal of publications has been replaced by the "View/Print on Demand" system available on the Web. To be notified of new or updated documentation that has been added to the VPOD system, join the Listserv list, "CIT-doc-renew."

## Mainframe Systems (IBM OS/390 Servers)

### Single Copy Publications

*New and Revised*

**DB2 (Version 7) Basic Set**
Administration Guide, SC26-9931-01
Application Programming and Reference for Java, SC26-9932-01
Application Programming and SQL Guide, SC26-9933-01
Command Reference, SC26-9934-01
Image, Audio, and Video Extenders Administration and Programming, SC26-9947-00
LOADPLUS for DB2 Reference Manual - Version 6.1
Messages and Codes, GC26-9940-01
Net Search Extender Administration and Programming, SC27-1171-00
ODBC Guide and Reference, SC26-9941-01
Reference for Remote DRDA Requesters and Servers, SC26-9942-01
Release Planning Guide, SC26-9943-01
SQL Reference, SC26-9944-01
SQL Reference for Cross-Platform Development
Text Extender Administration and Programming, SC26-9948-00
Utility Guide and Reference, SC26-9945-02
What's New?, GC26-9946-01
XML Extender Administration and Programming, SC26-9949-00

**DB2 (Version 7) QMF Set**
Developing QMF Applications, SC27-0718-01
Getting Started with QMF for Windows, SC27-0723-01
Installing and Managing QMF on Windows, GC27-0722-01
Introducing QMF, GC27-0714-01
QMF Messages and Codes, GC27-0717-01
QMF Reference, SC27-0715-01
Using QMF, SC27-0716-01

# *Popular Web Sites* for Computer Center Users

| Service | Web Address |
|---|---|
| **National Institutes of Health** | http://www.nih.gov |
| Antivirus Web site<br>NIH Business and Research Support System<br>NIH Electronic Directory<br>NIH Data Warehouse<br>Information Systems Designated Procurement | http://antivirus.nih.gov<br>http://nbrss.nih.gov<br>http://ned.nih.gov<br>http://datatown.nih.gov<br>http://isdp.cit.nih.gov |
| **Center for Information Technology** | http://cit.nih.gov |
| Computational Bioscience<br>   Center for Molecular Modeling | http://cmm.info.nih.gov/modeling |
| **NIH Computer Center** | http://datacenter.cit.nih.gov |
| Scientific Computing<br>   *ALW*<br>   *Helix Systems*<br>    NIH Biowulf Cluster<br>Enterprise Computing<br>   *OS/390*<br>    Transition Update<br>    "Titan/South System News"<br>    *Titan*<br>     RACF<br>     SILK Web<br>     Web Sponsor<br>    *South*<br>     RACF<br>     SILK Web<br>     Web Sponsor<br>   *Unix (EOS)*<br>   *Windows Server Services*<br><br>   Application Service Request (ASR)<br>   ColdFusion<br>   Database Technologies<br>   *Interface*<br>   NIH Backup and Recovery Service (NBARS)<br>   Oracle Hosting Service | <br>http://www.alw.nih.gov<br>http://helix.nih.gov<br>http://biowulf.nih.gov<br><br>http://datacenter.cit.nih.gov/mvs<br>http://silk.nih.gov/silk/titan<br>http://datacenter.cit.nih.gov/titannews<br><br>http://titan.nih.gov/racf<br>http://titan.nih.gov/<br>http://websponsor.cit.nih.gov<br><br>http://silk.nih.gov/racf<br>http://silk.nih.gov<br>http://silk.nih.gov/sponsor/homepage<br>http://datacenter.cit.nih.gov/eos<br>http://wintelhosting.cit.nih.gov<br><br>http://hosting.cit.nih.gov/asr/log.cfm<br>http://cfhosting.cit.nih.gov<br>http://silk.nih.gov/dbtech<br>http://datacenter.cit.nih.gov/interface<br>http://silk.nih.gov/silk/nbars<br>http://silk.nih.gov/silk/citoracle |
| **Customer Services**<br>   Accounts<br>   Customer Support<br>   Publications<br>   Service Request<br>   TASC Help Desk<br>   Training | <br>http://support.cit.nih.gov/accounts<br>http://support.cit.nih.gov<br>http://publications.cit.nih.gov<br>http://support.cit.nih.gov<br>http://support.cit.nih.gov<br>http://training.cit.nih.gov |
| **Network Systems**<br>   Listserv<br>   NIHnet<br>   Parachute | <br>http://list.nih.gov<br>http://www.net.nih.gov<br>http://parachute.nih.gov |